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ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)									DATE February 1999																																																								
BUDGET ACTIVITY <b>5 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>																																																													
COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost																																																							
Total Program Element (PE) Cost	20600	32548	35299	33610	37616	36027	23482	23797	Continuing	Continuing																																																							
DC34 Army Tactical C2 Systems (ATCCS) Engineering	9448	15759	17862	16314	16627	16797	8848	9074	Continuing	Continuing																																																							
DC39 Tactical Operations Centers (TOCs)	0	5960	6282	6064	7958	6020	0	0	Continuing	Continuing																																																							
D323 Common Hardware Software	11152	10829	11155	11242	13031	13210	14634	14723	Continuing	Continuing																																																							
<p><b>A. Mission Description and Budget Item Justification:</b> The umbrella program to exploit automation technology for the conduct of combat operations is the Army Tactical Command and Control System (ATCCS) program which is a component of the Army Battle Command System (ABCS). The ATCCS program provides automation in the five battlefield functional areas (BFAs) with the following specific systems: (1) Maneuver Control System (MCS); (2) Advanced Field Artillery Tactical Data System (AFATDS); (3) All Source Analysis System (ASAS) for Intelligence/Electronic Warfare; (4) Forward Area Air Defense Command, Control and Intelligence System (FAADC2I); and (5) Combat Service Support Control System (CSSCS) and to other Army Joint and Allied systems. To provide an overall technically sound, cost effective, and operationally responsive approach, the design and development of ATCCS must be accomplished on a total systems basis. The ATCCS Engineering program provides the required systems engineering to assure integrated Army tactical command and control, and the utilization of common hardware and software throughout the five ATCCS nodal systems. This project includes the Central Technical Support Facility(CTSF) which provides a single technical "center of mass" for software checkout and physical system integration. The Common Hardware Software (CHS) project provides common hardware and software to customers to meet their developmental and fielding needs. The Tactical Operations Centers(TOCs) project designs and develops the TOCs that form the structural backbone of the Army's digitized fielding concept.</p>																																																																	
<table border="1"> <thead> <tr> <th><b>B. Program Change Summary</b></th> <th><u>FY 1998</u></th> <th><u>FY 1999</u></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget (FY 1999 PB)</td> <td>19184</td> <td>32929</td> <td>36641</td> <td>35065</td> </tr> <tr> <td>Appropriated Value</td> <td>20022</td> <td>32929</td> <td></td> <td></td> </tr> <tr> <td>Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>a. Congressional General Reductions</td> <td>-838</td> <td>-381</td> <td></td> <td></td> </tr> <tr> <td>b. SBIR / STTR</td> <td>-438</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. Omnibus or Other Above Threshold Reductions</td> <td>-145</td> <td></td> <td></td> <td></td> </tr> <tr> <td>d. Below Threshold Reprogramming</td> <td>+1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>e. Rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Adjustments to Budget Years Since FY 1999 PB</td> <td></td> <td></td> <td>-1342</td> <td>-1455</td> </tr> <tr> <td>Current Budget Submit (FY 2000 / 2001 PB)</td> <td>20600</td> <td>32548</td> <td>35299</td> <td>33610</td> </tr> </tbody> </table>											<b>B. Program Change Summary</b>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	Previous President's Budget (FY 1999 PB)	19184	32929	36641	35065	Appropriated Value	20022	32929			Adjustments to Appropriated Value					a. Congressional General Reductions	-838	-381			b. SBIR / STTR	-438				c. Omnibus or Other Above Threshold Reductions	-145				d. Below Threshold Reprogramming	+1999				e. Rescissions					Adjustments to Budget Years Since FY 1999 PB			-1342	-1455	Current Budget Submit (FY 2000 / 2001 PB)	20600	32548	35299	33610
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<b>BUDGET ACTIVITY</b> <b>5 - Engineering and Manufacturing Development</b>				<b>PE NUMBER AND TITLE</b> <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>					<b>PROJECT</b> <b>DC34</b>	
<i>COST (In Thousands)</i>	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
DC34 Army Tactical C2 Systems (ATCCS) Engineering	9448	15759	17862	16314	16627	16797	8848	9074	Continuing	Continuing
<p><b>A. <u>Mission Description and Budget Item Justification:</u> Project DC34 – Army Tactical C2 Systems(ATCCS) Engineering:</b> The Air/Land Battle Doctrine requires military leaders to make sound and timely command and control decisions to direct the activities of assigned and supporting units. The umbrella program to exploit automation technology in support of this mission is the ATCCS program, a component of the Army Battle Command System(ABCS). The effort to achieve horizontal integration of the ATCCS BFAs, although going on independently in each BFA, was not disciplined enough to address all connections and needs within the entire spectra of command, control, and communications. Therefore, to ensure this horizontal integration effort is complete and fully automated, a significant management, systems engineering and integration effort is required. A key component of the overall effort is the Central Technical Support Facility(CTSF) which provides a centralized on-the-ground capability to ensure interoperability among various digitized platforms and serves as the final integration and maturation facility for Common Operating Environment(COE). The CTSF acts as an enabler for rapid integration of dissimilar software and hardware systems through real time on-site integration of soldiers, contractors, testers, Program Managers, and the requirements community. The CTSF provides a single technical “center of mass” for software checkout and system integration and provides a controlled environment with connectivity to other C4I systems either on-site or through the Army Interoperability Network(AIN) to support digital integration and fielding.</p> <p><b>FY 1998 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 300 Performed functional analysis and updated command post analysis to support ABCS</li> <li>• 1250 Continued ABCS/AWE system level training and logistics development</li> <li>• 3213 Continued ABCS/AWE interoperability engineering and system level engineering support/perform dependency analyses and verification and validation of all BFA fielded software, including common and unique applications</li> <li>• 1450 Conducted and supported system configuration development/operational demonstrations in conjunction with BFA tests</li> <li>• 800 Implemented the ABCS data architecture and standardization program for all BFAs to facilitate ATA compliance</li> <li>• 500 Developed and implemented the ABCS security architecture</li> <li>• 1935 Augmented Central Technical Support Facility (CTSF) with manpower and tech support which provided field integration and integration support for Division XXI Advanced Warfighter Exercise (DAWE)</li> </ul> <p>Total 9448</p>										
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<p><b>FY 1999 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 300 Perform functional analysis and update command post analysis to support ABCS</li> <li>• 1200 Continue ABCS/AWE system level training and logistics development</li> <li>• 3540 Continue ABCS/AWE interoperability engineering and system level engineering support/perform dependency analyses and verification and validation of all BFA fielded software, including common and unique applications</li> <li>• 1450 Conduct and support system configuration development/operational demonstrations in conjunction with BFA tests</li> <li>• 800 Continue to implement the ABCS data architecture and standardization program for all BFAs to facilitate ATA compliance</li> <li>• 500 Continue to develop and implement the ABCS security architecture</li> <li>• 7551 Central Technical Support Facility(CTSF) efforts to meet the Army's digital fielding requirements</li> <li>• 418 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs</li> </ul> <p>Total 15759</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 347 Perform functional analysis and update command post analysis to support ABCS</li> <li>• 1419 Continue ABCS/AWE system level training and logistics development</li> <li>• 3540 Continue ABCS/AWE interoperability engineering and system level engineering support/perform dependency analyses and verification and validation of all BFA fielded software, including common and unique applications</li> <li>• 1448 Conduct and support system configuration development/operational demonstrations in conjunction with BFA tests</li> <li>• 700 Continue to implement the ABCS data architecture and standardization program for all BFAs to facilitate ATA compliance</li> <li>• 529 Continue to develop and implement the ABCS security architecture</li> <li>• 543 Continue Knowledge Center Support</li> <li>• 9336 Central Technical Support Facility(CTSF) efforts to meet the Army's digital fielding requirements</li> </ul> <p>Total 17862</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 200 Perform functional analysis and update command post analysis to support ABCS</li> <li>• 1000 Continue ABCS/AWE system level training and logistics development</li> <li>• 3166 Continue ABCS/AWE interoperability engineering and system level engineering support/perform dependency analyses and verification and validation of all BFA fielded software, including common and unique applications</li> <li>• 1200 Conduct and support system configuration development/operational demonstrations in conjunction with BFA tests</li> <li>• 600 Continue to implement the ABCS data architecture and standardization program for all BFAs to facilitate ATA compliance</li> </ul>		
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<b>BUDGET ACTIVITY</b> <b>5 - Engineering and Manufacturing Development</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>	<b>PROJECT</b> <b>DC34</b>
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**FY 2001 Planned Program: (continued)**

- 500 Continue to develop and implement the ABCS security architecture
  - 100 Continue Knowledge Center Support
  - 9548 Central Technical Support Facility(CTSF) efforts to meet the Army's digital fielding requirements
- Total 16314

**B. Other Program Funding Summary:** Not applicable

**C. Acquisition Strategy:** This project provides the technical and programmatic disciplines required for systems engineering and integration, experimentation, acquisition management, testing, software development, interoperability, fielding, and sustainment to insure an interoperable and affordable ATCCS. The Program Executive Officer for Command , Control, and Communications(PEO C3S) has planned an evolutionary approach to fielding ATCCS as soon as possible.

<b>D. <u>Schedule Profile</u></b>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
FBCB2 LUT	4Q							
CORPS/JTF		1Q						
NTC 99-05		2Q						
Prairie Warrior 99		3Q						
ABCS Interoperability Test		3Q						
Corps UFL		4Q						
ISYCON LUT		4Q						
FBCB2 FDT&E		4Q						
FBCB2 IOTE			1Q					
NTC 00-05			2Q					
AFATDS 99 LUT			3Q					
Prairie Warrior 00			3Q					
JCF AWE			4Q					
FDD			4Q					
NTC 01-1				1Q				
Strike Force			2Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Corps Army Warfighter Exercise						1Q		

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Global Challenge							1Q	

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<b>ARMY RDT&amp;E COST ANALYSIS (R-3)</b>										DATE <b>February 1999</b>		
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<b>I. Product Development</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total PYs Cost</b>	<b>FY 1999 Cost</b>	<b>FY 1999 Award Date</b>	<b>FY 2000 Cost</b>	<b>FY 2000 Award Date</b>	<b>FY 2001 Cost</b>	<b>FY 2001 Award Date</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
a. TRW	PWD	Fort Mon/Fort Hood	1000	725	Oct 98	822	Oct 99	750	Oct 00	Cont	3297	
b. CSC	PWD	Fort Mon/Fort Hood	10132	3150	Jan 99	4303	Jan 00	3192	Jan 01	Cont	20777	
c. MITRE	MIPR	Ft Mon/Eatontown, NJ	1904	6837	Dec 98	7840	Dec 99	6970	Dec 00	Cont	23551	
d. MANTECH	PWD	Fort Mon/Fort Hood		1705	Jan 99	1204	Jan 00	1858	Jan 01	Cont	4767	
e. Misc Contracts	PWD	Fort Mon/Fort Hood	2500	2068	Oct 98	2344	Oct 99	2142	Oct 00	Cont	9054	
Subtotal Product Development:			15536	14485		16513		14912			61446	
<b>II. Support Costs</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total PYs Cost</b>	<b>FY 1999 Cost</b>	<b>FY 1999 Award Date</b>	<b>FY 2000 Cost</b>	<b>FY 2000 Award Date</b>	<b>FY 2001 Cost</b>	<b>FY 2001 Award Date</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
a. In-House Support	Various	Fort Mon/Fort Hood	3406	1274	Oct 98	1349	Oct 99	1402	Oct 00	Cont	7431	
Subtotal Support Costs:			3406	1274		1349		1402			7431	
III. Test and Evaluation: None												
IV. Management Services: None												
<b>Project Total Cost:</b>			18942	15759		17862		16314			68877	

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BUDGET ACTIVITY <b>5 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>				PROJECT <b>DC39</b>		
COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
DC39 Tactical Operations Centers (TOCs)	0	5960	6282	6064	7958	6020	0	0	Continuing	Continuing
<p><b>A. <u>Mission Description and Budget Item Justification:</u> Project DC39:</b> The Tactical Operations Centers (TOCs) project designs and develops the TOCs that form the structural backbone of the Army's digitized fielding concept. The Army Tactical Operations Center (TOC) program provides commanders and staff at all echelons of command from Battalion to Corps with integrated digitized command and control facilities to exploit the enhanced situational awareness and force multiplier effect gained through digitization. The objective is dominance using interoperable, robust Army Battle Command System (ABCS) systems operating in an Defense Information Infrastructure (DII)/Common Operating Environment (COE) compliant architecture.</p> <p><b>FY 1998 Accomplishments:</b> Project not funded in FY 1998</p> <p><b>FY 1999 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 2000 Sustain Division XXI prototype TOCs</li> <li>• 2802 System and design engineering, technology assessments, and technology integration for First Digitized Division (FDD)</li> <li>• 1000 Program planning, integrated logistics support, program management, test planning, and program integration for FDD.</li> <li>• 158 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs</li> </ul> <p>Total 5960</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 1500 Sustain Division XXI prototype TOCs</li> <li>• 3214 System and design engineering, technology assessments, and technology integration for First Digitized Division (FDD)</li> <li>• 1568 Program planning, integrated logistics support, program management, test planning, and program integration for FDD.</li> </ul> <p>Total 6282</p> <p><b>FY 2001 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 3032 System and design engineering, technology assessments, and technology integration for the First Digitized Corps.</li> <li>• 3032 Program planning, integrated logistics support, program management, test planning, and program integration for First Digitized Corps.</li> </ul> <p>Total 6064</p>										
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<p><b>B. <u>Other Program Funding Summary</u></b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th><u>FY 1998</u></th> <th><u>FY 1999</u></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> <th>To <u>Compl</u></th> <th>Total <u>Cost</u></th> </tr> </thead> <tbody> <tr> <td>Other Procurement Army 2 – SSN: BZ9865</td> <td></td> <td align="right">26630</td> <td align="right">28098</td> <td align="right">26984</td> <td align="right">29628</td> <td align="right">32572</td> <td align="right">0</td> <td align="right">0</td> <td align="center">Cont</td> <td align="center">Cont</td> </tr> </tbody> </table> <p><b>C. <u>Acquisition Strategy:</u></b> The acquisition strategy relies upon full and open competition for performance against a performance specification utilizing Government Furnished Property and Commercial off-the shelf/non-developmental items for integration into Army Tactical Operations Centers to provide commanders and staff at all echelons of command from Battalion to Corps with integrated digitized command and control facilities to exploit situational awareness the battlefield.</p> <p><b>D. <u>Schedule Profile</u></b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th><u>FY 1996</u></th> <th><u>FY 1997</u></th> <th><u>FY 1998</u></th> <th><u>FY 1999</u></th> <th><u>FY 2000</u></th> <th><u>FY 2001</u></th> <th><u>FY 2002</u></th> <th><u>FY 2003</u></th> <th><u>FY 2004</u></th> <th><u>FY 2005</u></th> </tr> </thead> <tbody> <tr> <td>Fielding 4<sup>th</sup> Infantry Division &amp; 1<sup>st</sup> Cavalry</td> <td></td> <td></td> <td></td> <td></td> <td align="center">3Q</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Participate in IOTE for FBCB2</td> <td></td> <td></td> <td></td> <td></td> <td align="center">3Q</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>III Corp</td> <td></td> <td></td> <td></td> <td></td> <td align="center">1Q</td> <td align="center">4Q</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3<sup>rd</sup> ACR 3D BDE (41D)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td align="center">3Q</td> <td></td> <td></td> </tr> </tbody> </table>											<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>	Other Procurement Army 2 – SSN: BZ9865		26630	28098	26984	29628	32572	0	0	Cont	Cont		<u>FY 1996</u>	<u>FY 1997</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	Fielding 4 <sup>th</sup> Infantry Division & 1 <sup>st</sup> Cavalry					3Q						Participate in IOTE for FBCB2					3Q						III Corp					1Q	4Q					3 <sup>rd</sup> ACR 3D BDE (41D)								3Q		
	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To <u>Compl</u>	Total <u>Cost</u>																																																																												
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<b>ARMY RDT&amp;E COST ANALYSIS (R-3)</b>	DATE <b>February 1999</b>
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<b>BUDGET ACTIVITY</b> <b>5 - Engineering and Manufacturing Development</b>	<b>PE NUMBER AND TITLE</b> <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>	<b>PROJECT</b> <b>DC39</b>
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I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Contract TBD	TBD			420	2Q	440		424			1284	
b. Contract TBD	TBD			3323	2Q	3455		3336			10114	
c. In-House/Gov't Support	Various			554		628		606			1788	
d. Engineering Support				883		942		910			2735	
Subtotal Product Development:				5180		5465		5276			15921	

Remark: Source Selection Evaluation is currently ongoing; therefore, funding breakouts and all cost information is tentative and is classified "Competition Sensitive"

II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. SETA Contract	MIPR	OGA		780	2Q	817		788			2385	
Subtotal Support Costs:				780		817		788			2385	

Remark: Source Selection Evaluation is currently ongoing; therefore, funding breakouts and all potential cost information is tentative and is classified "Competition Sensitive"

III. Test and Evaluation: None

IV. Management Services: None

Project Total Cost:				5960		6282		6064			18306	
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BUDGET ACTIVITY <b>5 - Engineering and Manufacturing Development</b>				PE NUMBER AND TITLE <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>				PROJECT <b>D323</b>		
COST (In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
D323 Common Hardware Software	11152	10829	11155	11242	13031	13210	14634	14723	Continuing	Continuing
<p><b>A. <u>Mission Description and Budget Item Justification:</u> Project D323 Common Hardware/Software (CHS):</b> CHS is the program through which the Army builds its integrated efforts for tying together the Army Battle Command Systems (ABCS). The project provides vehicles (contracts) through which customers can acquire state-of-the-art common hardware/software and associated peripherals to meet developmental and fielding needs. The project also provides software technology support and command post internal structures within shelters. The common software supports Army, other Services and Joint systems. The CHS program is instrumental in digitizing the battlefield.</p> <p><b>FY 1998 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>• 1371 Continued management of the acquisition and delivery of CHS equipment (LCU/CHS-2) in support of customer requirements</li> <li>• 3150 Continued execution of common hardware, software technology and software reuse programs</li> <li>• 575 Continued supporting customers testing efforts with CHS equipment</li> <li>• 610 Continued the exploration of state of the art technology insertion in support of ABCS programs</li> <li>• 5446 Continued developing and upgrading DII COE products/integrate into ABCS systems and other Army systems</li> </ul> <p>Total 11152</p> <p><b>FY 1999 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 1350 Continue management of the acquisition and delivery of CHS-2/LCU equipment in support of customer requirements.</li> <li>• 3007 Continue execution of common hardware, software technology and software reuse programs</li> <li>• 550 Continue supporting customers testing efforts with CHS equipment</li> <li>• 545 Continue exploring state of the art technology insertion in support of ABCS programs</li> <li>• 5167 Continue developing and upgrading DII COE products/integrate into ABCS systems and other Army systems</li> <li>• 210 Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) Programs</li> </ul> <p>Total 10829</p> <p><b>FY 2000 Planned Program:</b></p> <ul style="list-style-type: none"> <li>• 1395 Continue management of the acquisition and delivery of CHS-2 equipment in support of customer requirements</li> <li>• 3379 Continue execution of common hardware, software technology and software reuse program</li> </ul>										
Project D323			Page 9 of 11 Pages				Exhibit R-2A (PE 0604818A)			

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<b>ARMY RDT&amp;E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)</b>		DATE <b>February 1999</b>
BUDGET ACTIVITY <b>5 - Engineering and Manufacturing Development</b>	PE NUMBER AND TITLE <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>	PROJECT <b>D323</b>

**FY 2000 Planned Program: (continued)**

- 575 Continue supporting customers testing efforts with CHS equipment
  - 510 Continue exploring state of the art technology insertion in support of ABCS programs
  - 5296 Continue developing and upgrading DII COE products/integrate into ABCS systems and other Army systems
- Total 11155

**FY 2001 Planned Program:**

- 1561 Continue management of the acquisition and delivery of CHS-2 equipment in support of customer requirements and proceed to CHS-3 contract award
  - 3300 Continue execution of common hardware, software technology and software reuse program
  - 550 Continue supporting customers testing efforts with CHS equipment
  - 575 Continue exploring state of the art technology insertion in support of ABCS programs
  - 5256 Continue developing and upgrading DII COE products/integrate into ABCS systems and other Army systems
- Total 11242

**B. Other Program Funding Summary: Not Applicable**

**C. Acquisition Strategy:** The overall goal is to improve interoperability and lower life cycle costs by standardizing Battlefield Command and Control (C2) automation through centralized buys of non-developmental items (NDI), standardized protocols and reusable software. Four NDI hardware versions are available to meet specific needs of each Battlefield Functional Area ( BFA): handheld, portable, transportable and lightweight computer unit.

<b>D. <u>Schedule Profile</u></b>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Last CHS-1 order processed	4Q							
Last LCU order processed		3Q						
CHS-2 Technology Insertion (continuous)	1Q-4Q							
Initiate follow-on CHS ABCS Information Technology (AIT) Contract Requirements effort				2Q				
CHS AIT contract award					3Q			

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<b>ARMY RDT&amp;E COST ANALYSIS (R-3)</b>										DATE <b>February 1999</b>		
<b>BUDGET ACTIVITY</b> <b>5 - Engineering and Manufacturing Development</b>				<b>PE NUMBER AND TITLE</b> <b>0604818A Army Tactical Communications and Control Hardware &amp; Software</b>						<b>PROJECT</b> <b>D323</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a. Matrix-CECOM	MIPR	Ft. Monmouth	18791	2100		2100		1900		Cont'd	24891	
b. In-House		PM ATCCS, FM, NJ	18273	1850		2048		2188		Cont'd	24359	
c. Primary Contract	PWD	Ft. Monmouth	6798	200		275		350		Cont'd	7623	
d. Misc Contract	PWD	Ft. Monmouth	27378	1350		1126		1128		Cont'd	30982	
e. CSC	PWD	Ft. Monmouth	6055	4699		4886		4956		Cont'd	20596	
f. MITRE (FFRDC)	PWD	MITRE, Eatontown, NJ	9148	630		720		720		Cont'd	11218	
Subtotal Product Development:			86443	10829		11155		11242			119669	
II. Support Costs: None												
III. Test and Evaluation: None												
IV. Management Services: None												
Project Total Cost:			86443	10829		11155		11242			119669	
Remark:												

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